Fig. 1

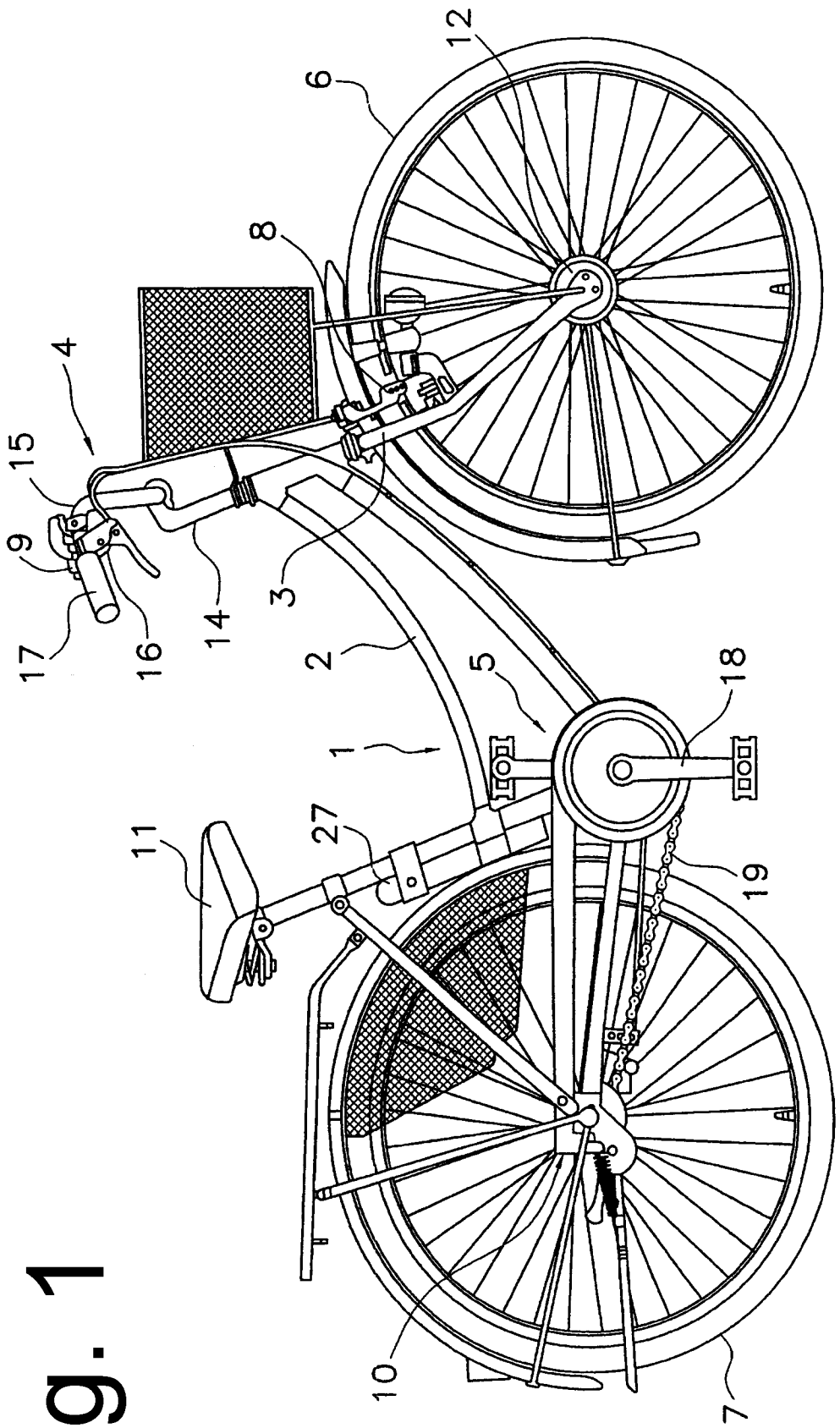
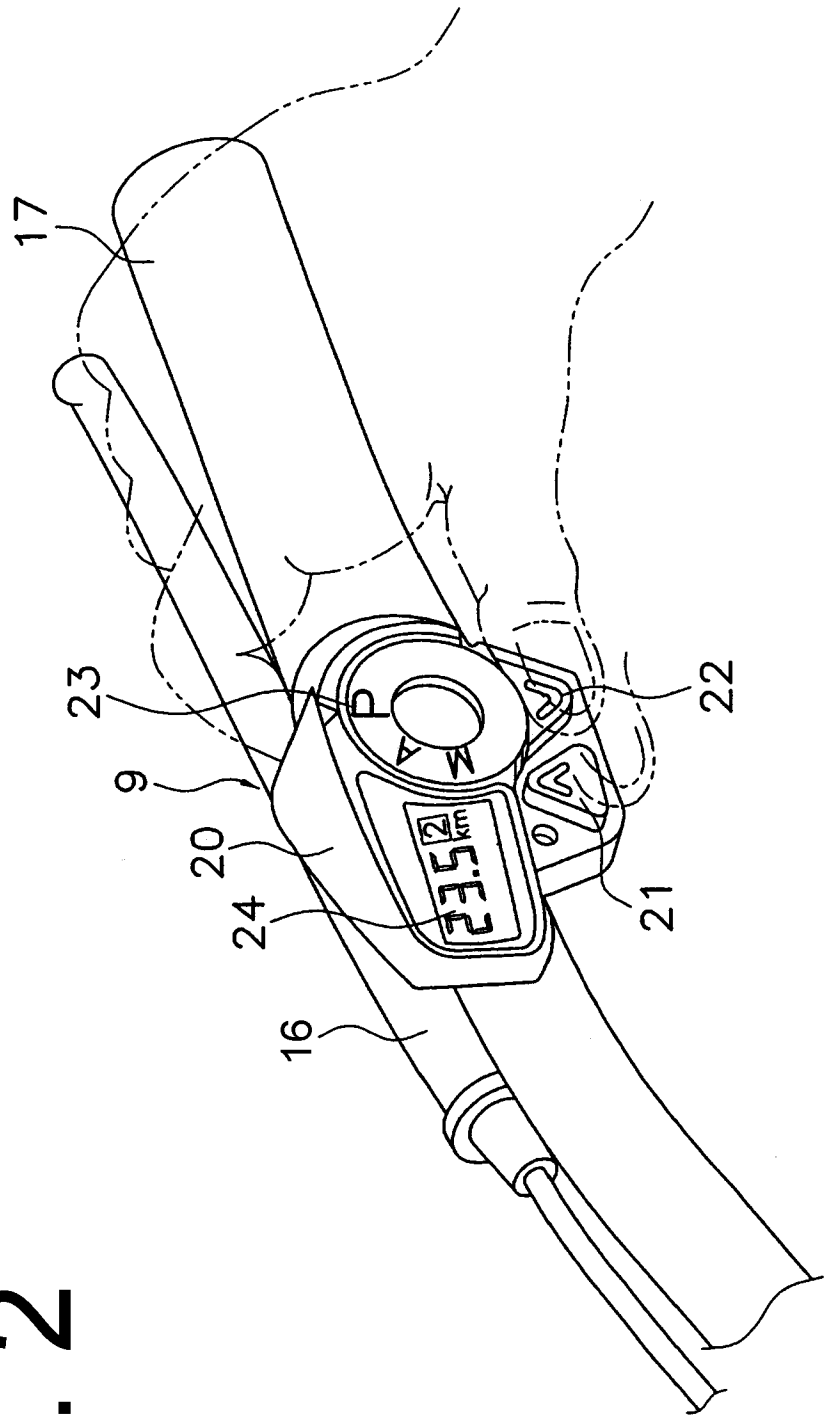


Fig. 2



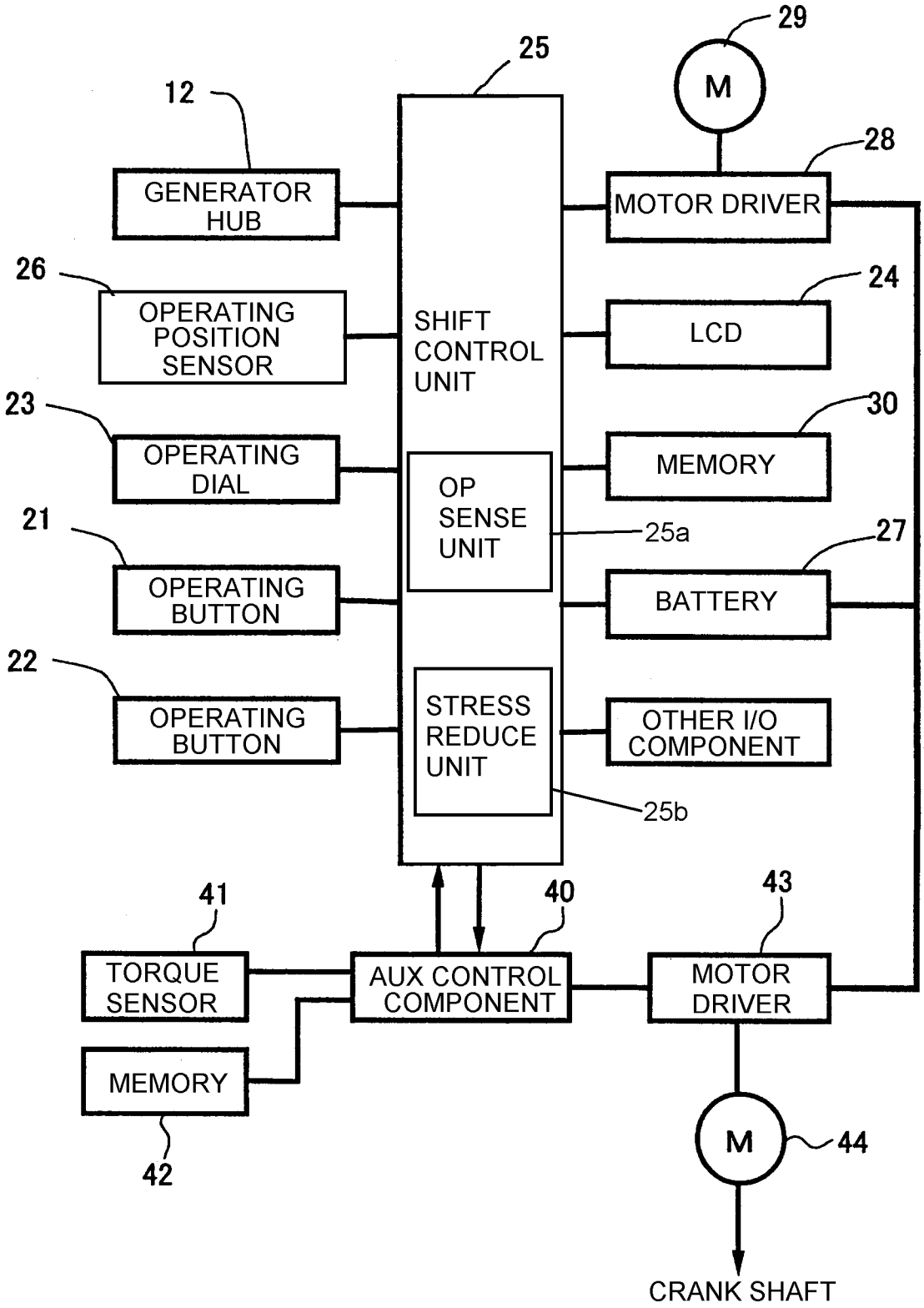

12
GENERATOR HUB
25
SHIFT CONTROL UNIT
OP SENSE UNIT
25a
STRESS REDUCE UNIT
25b
29
M
28
MOTOR DRIVER
24
LCD
30
MEMORY
27
BATTERY
OTHER I/O COMPONENT
26
OPERATING POSITION SENSOR
23
OPERATING DIAL
21
OPERATING BUTTON
22
OPERATING BUTTON
41
TORQUE SENSOR
40
AUX CONTROL COMPONENT
43
MOTOR DRIVER
MEMORY
42
M
44
CRANK SHAFT

Fig. 3

Fig. 4

	HIGH TORQUE MODE (km/h)	NORMAL MODE (km/h)
1st speed to 2nd speed	14	10
2nd speed to 3rd speed	18.5	16
3rd speed to 2nd speed	16	12.5
2nd speed to 1st speed	12	6.5

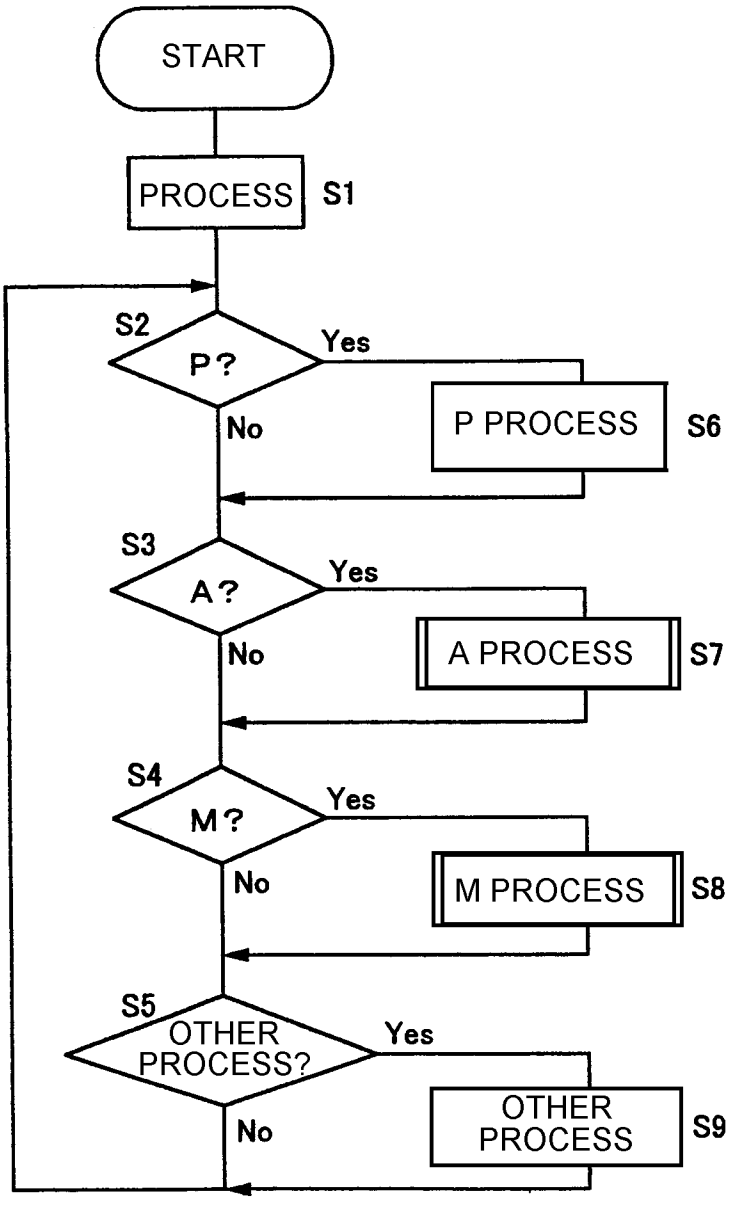


Fig. 5

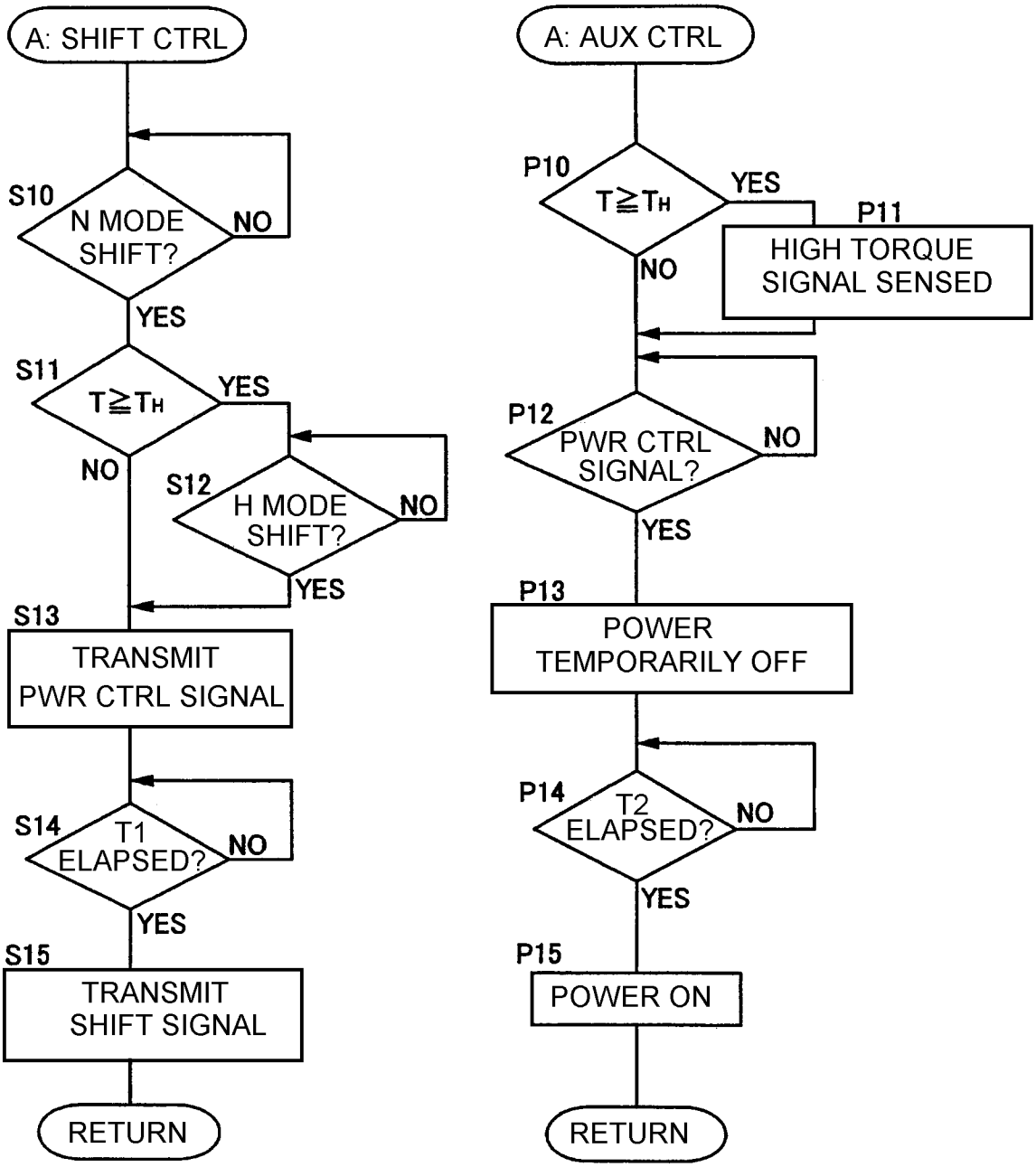

A: SHIFT CTRL
S10
N MODE SHIFT?
NO
YES
S11
T≧TH
YES
NO
S12
H MODE SHIFT?
NO
YES
S13
TRANSMIT PWR CTRL SIGNAL
S14
T1 ELAPSED?
NO
YES
S15
TRANSMIT SHIFT SIGNAL
RETURN
A: AUX CTRL
P10
T≧TH
YES
NO
P11
HIGH TORQUE SIGNAL SENSED
P12
PWR CTRL SIGNAL?
NO
YES
P13
POWER TEMPORARILY OFF
P14
T2 ELAPSED?
NO
YES
P15
POWER ON
RETURN

Fig. 6

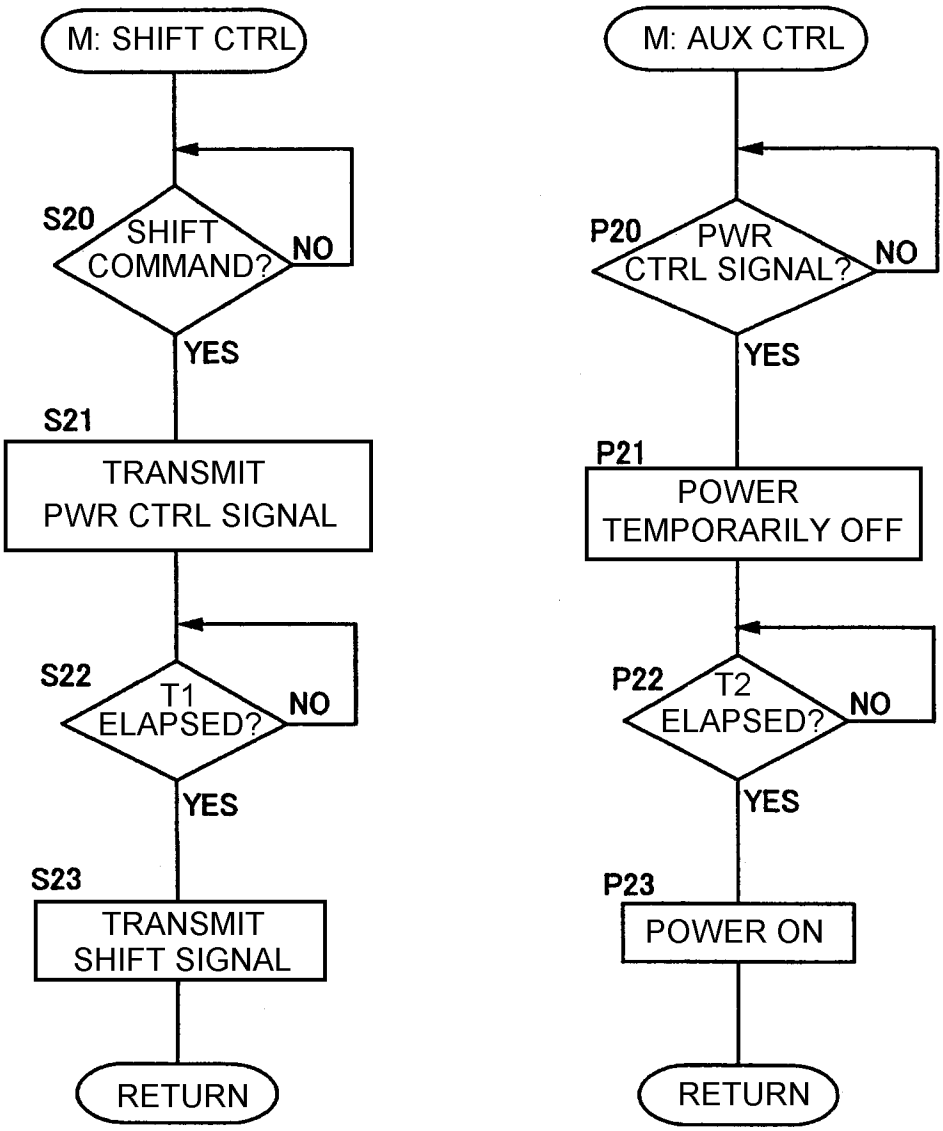

M: SHIFT CTRL
S20
SHIFT COMMAND?
NO
YES
S21
TRANSMIT PWR CTRL SIGNAL
S22
T1 ELAPSED?
NO
YES
S23
TRANSMIT SHIFT SIGNAL
RETURN
M: AUX CTRL
P20
PWR CTRL SIGNAL?
NO
YES
P21
POWER TEMPORARILY OFF
P22
T2 ELAPSED?
NO
YES
P23
POWER ON
RETURN

Fig. 7

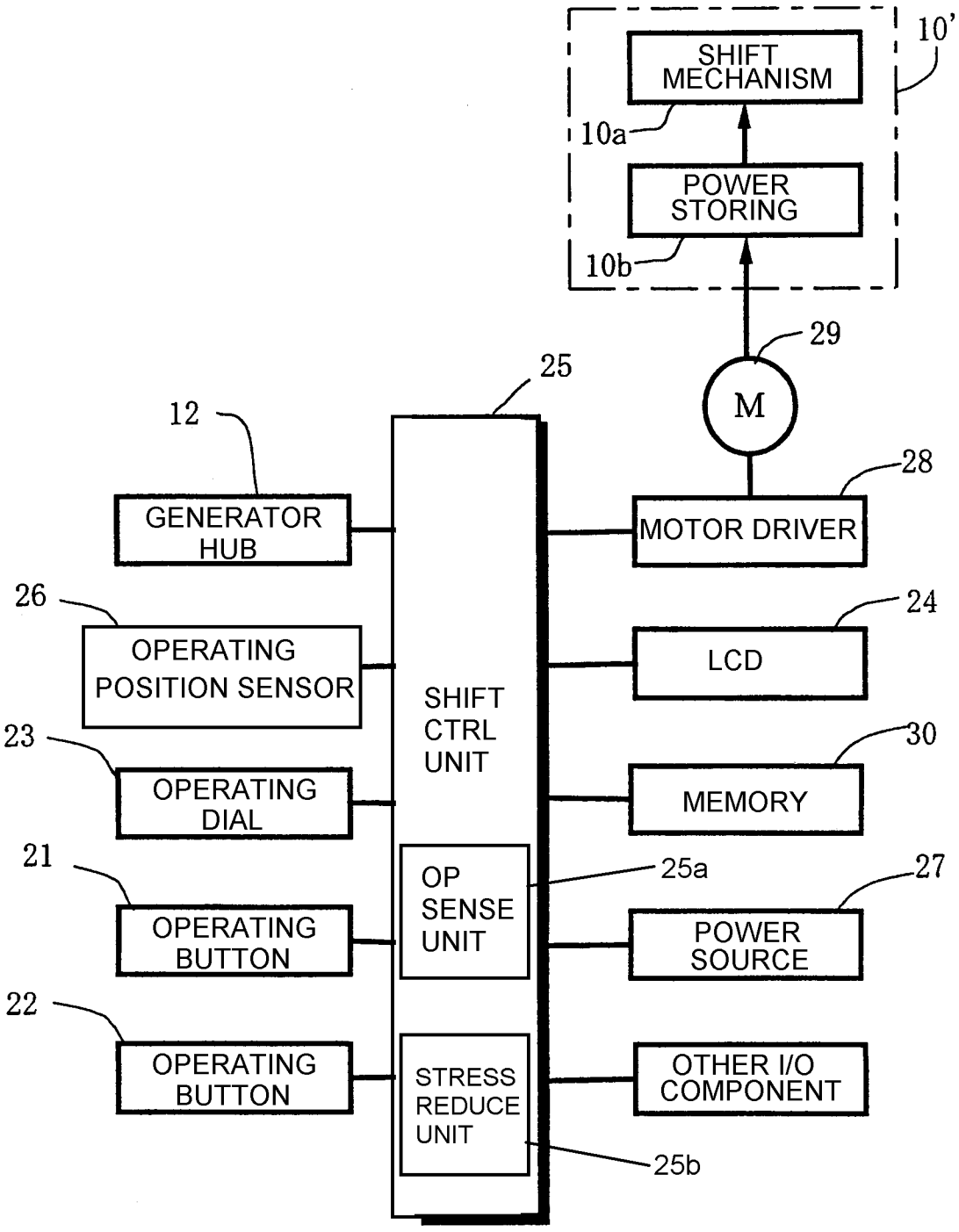

10'
SHIFT MECHANISM
10a
POWER STORING
10b
29
M
25
12
28
GENERATOR HUB
MOTOR DRIVER
26
24
OPERATING POSITION SENSOR
LCD
SHIFT CTRL UNIT
23
30
OPERATING DIAL
MEMORY
21
OP SENSE UNIT
25a
27
OPERATING BUTTON
POWER SOURCE
22
OPERATING BUTTON
STRESS REDUCE UNIT
OTHER I/O COMPONENT
25b

Fig. 8

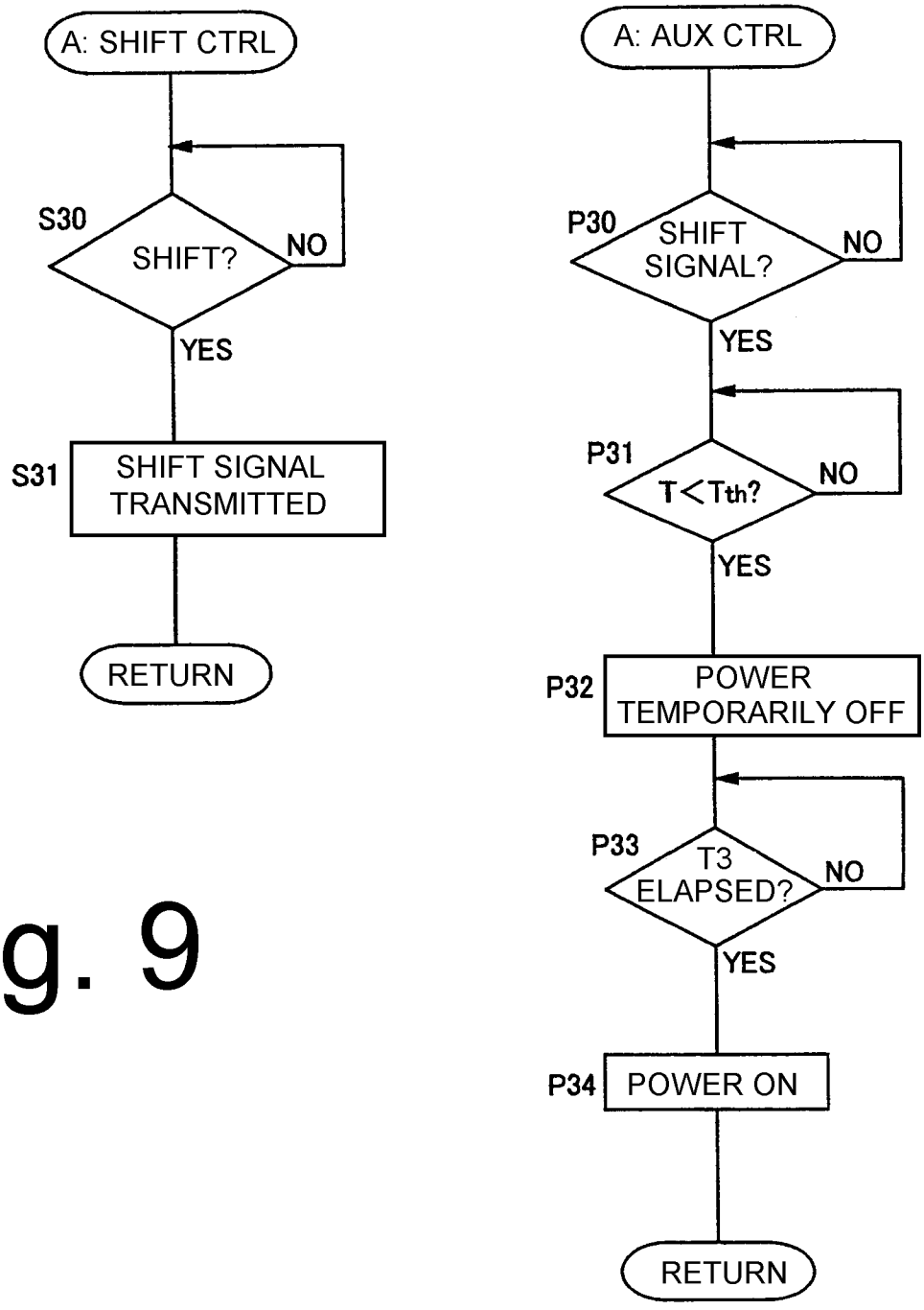

A: SHIFT CTRL
S30
SHIFT?
NO
YES
S31
SHIFT SIGNAL TRANSMITTED
RETURN
A: AUX CTRL
P30
SHIFT SIGNAL?
NO
YES
P31
T<Tth?
NO
YES
P32
POWER TEMPORARILY OFF
P33
T3 ELAPSED?
NO
YES
P34
POWER ON
RETURN

Fig. 9